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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/448,856 | 11/23/1999 | ASHRAF W. LOTFI | LOTFI-22-2 | 5530 |

27964 7590 01/23/2004

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EXAMINER

NADAV, ORI

ART UNIT PAPER NUMBER

2811

DATE MAILED: 01/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | | | |
|------------------------|-------------------------------|------------------------------|--|
| Advisory Action | Application No. 09/448,856 | Applicant(s) LOTFI ET AL. | |
| | Examiner ori nadav | Art Unit 2811 | |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 10 December 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) ☐ they raise the issue of new matter (see Note below);
 - (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See attachment.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

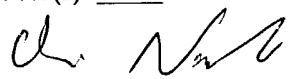
Claim(s) allowed: _____

Claim(s) objected to: _____

Claim(s) rejected: 44-47 and 49-54.

Claim(s) withdrawn from consideration: _____

8. ☐ The proposed drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____
10. ☐ Other: _____


 ORI NADAV
 patent examiner

Response to Arguments

Applicant argues that the examiner should withdraw the finality of the office action due to the typographical error, which was recited in earlier office action. ("The typographical error should be used as a basis for withdrawing the finality of the office action")

The issues regarding the 112 rejection are identical whether they are presented in claim 44 or in claim 48. The mere mis-citation of the claim number should not make the rejection unclear. Therefore, the finality of the office action should be maintained.

Applicant argues that figure 2F provides support for the claimed limitation of a SiC tub located within a trench and located proximate CMOS devices. Applicant further argues that although the specification does not specifically state that the configuration of figure 3A could also encompass the embodiment of figure 2F, the specification taken as a whole reasonably conveys to an artisan that such configuration is within the scope of the invention.

Although figure 2F provides support for a SiC tub located within a trench, there is no support in the specification for a semiconductor device comprising a SiC tub located within a trench, and a CMOS device having a tub comprising a material different from the silicon carbide tub and located on the substrate, as recited in claim 44. Figure 2F describes a SiC tub located within a trench in a SiC substrate without having a CMOS device having a tub. The device

Art Unit: 2811

described in the embodiment of figure 3 includes a SiC tub located above the substrate, and a CMOS device located in a silicon substrate. Forming a device comprising a SiC tub located within a trench (i.e. the tub must be located inside a substrate of an undisclosed material), and a CMOS device on the substrate and having a tub comprising a material different from the silicon carbide tub, as recited in claim 44, is not described in the specification. Even if the specification is taken as a whole, it would not convey to an artisan that a configuration wherein the formation of a device comprising a SiC tub located within a trench and a CMOS device on the substrate and having a tub comprising a material different from the silicon carbide tub, conveys to an artisan that such configuration is within the scope of the invention is adequately described in the specification.

The rest of Applicant's arguments with respect to claims 44-47 and 49-54 were adequately addressed in previous office action.

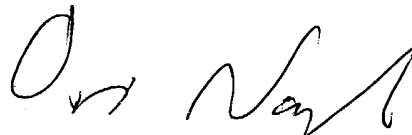
Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax

Art Unit: 2811

Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to *Examiner Nadav* whose telephone number is **(703) 308-8138**. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **308-0956**

A handwritten signature in black ink, appearing to read "Ori Nadav". The signature is fluid and cursive, with the first name "Ori" and last name "Nadav" clearly distinguishable.

O.N.
January 20, 2004

ORI NADAV
PATENT EXAMINER
TECHNOLOGY CENTER 2800